

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
18 September 2003 (18.09.2003)

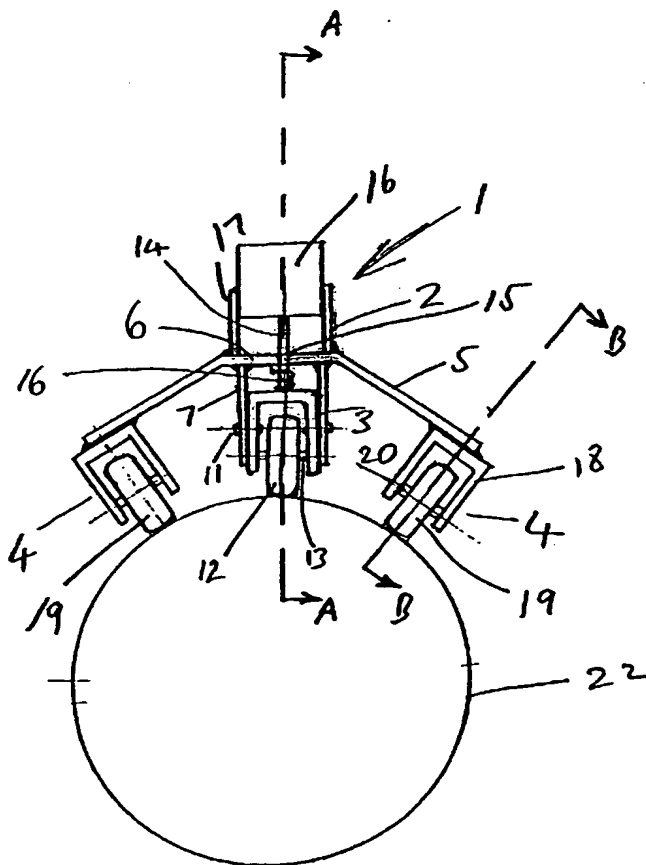
PCT

(10) International Publication Number
WO 03/076869 A1

- (51) International Patent Classification⁷: G01B 5/08, 7/28
- (21) International Application Number: PCT/EP02/02788
- (22) International Filing Date: 13 March 2002 (13.03.2002)
- (25) Filing Language: English
- (26) Publication Language: English
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- (81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK (utility model), SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent

[Continued on next page]

(54) Title: APPARATUS FOR INSPECTING DEFORMATION OF PIPES



(57) Abstract: An apparatus (1) is provided for measuring deformation of a surface of a pipe (22). The apparatus has a central portion (2) to which a detector section (3) is mounted. At each side, guides (4) are connected to the housing via arms (5). The housing has a platform (6) below which an inverted U-shaped section (7) is provided, with the platform forming the base of the U. At the rear of this section a wheel is rotatably mounted on an axle. Forward of this, and also within the U-shaped section is mounted a further U-shaped section (10). This is pivotally mounted at its rear end by means of a pin such that its forward end is free to move vertically. The forward end has mounted within it a further wheel (12) on an axle (13). Projecting upwards from the second U-shaped section (10) is a rod (14) which passes through a hole (15) in platform (6). Around the lower portion of the rod is provided a spring (16) which biases the detector downwards and away from the platform. The rod moves vertically with the wheel (12) as it passes over bumps in the pipe. The rod is connected to a potentiometer which varies an output voltage. By correlating the variations in the output voltage with the distance moved by the detector, deformations in the pipe (22) may be mapped.

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(BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*

International Application No

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G01B5/08 G01B7/28

B. FIELDS SEARCHED

IPC 7 G01B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

PAJ, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 011, no. 049 (P-547), 14 February 1987 (1987-02-14) & JP 61 215901 A (KAWASAKI STEEL CORP; OTHERS: 01), 25 September 1986 (1986-09-25) abstract	1-3, 13, 14
X	US 4 240 206 A (BARESH JOSEPH M ET AL) 23 December 1980 (1980-12-23) the whole document	1-4, 6-8, 13, 14
X	US 5 335 422 A (FERGUSON CLAYTON L) 9 August 1994 (1994-08-09) the whole document	1, 2, 4, 6-14

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☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

13 November 2002

Date of mailing of the international search report

21/11/2002

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 02/02788

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 389 788 A (BALOGH LOUIS J ET AL) 28 June 1983 (1983-06-28) the whole document -----	1-3, 13, 14

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 02/02788

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